

March 27, 2015

Ms. Alison Thompson
Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193



Re:

Permit renewal application VA 0088749

Boston Water & Sewer STP

Dear Alison;

Enclosed the VPDES permit application for the above referenced permittee. Should you have questions, or require additional information, please contact me.

Best regards

Valeria Compton, Administrative Assistant

Environmental Services Division

Cc: Edward O'Brien, President

| | Form Approved. OMB No. 2040-008 | 36 . |
|--|---------------------------------|-------------|
| ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION | I. EPA I.D. NUMBER | |
| GENERAL INFORMATION | S | T/A |
| Consolidated Permits Program | F | |

| Please print or FORM | type in the unshad | | ONIAGE | NITAL | DDOTECT | | Form Approved, OMB No. 2040-0 | J086. | | | |
|---|---------------------------------------|---|----------|----------------|--|--|--|-----------|----------------------------------|--|-----|
| | Ω EDA | | | | IFORMA | ION AGENCY TION | s I | | | | |
| 1 | ⊗EPA | Co | nsolid | ated F | Permits Prog | gram | F | | | | |
| GENERAL | 1 | (Read the | 'Gener | al Insti | ructions" hef | ore starting.) | 1 2 | | . 1 | | |
| LABE | LITEMS | | | | | | GENERAL INSTRI | provide | ed, aff | | |
| designated space. Review the inform i. EPA I.D. NUMBER designated space. Review the inform is incorrect, cross through it and ent appropriate fill-in area below. Also, if | | | | | | nter the | correc | | | | |
| III. FACILIT | Y NAME | PLEASI | E PLAC | CE LA | BEL IN THI | S SPACE | is absent (the area to the left of information that should appear), ple | the la | bel sp | | |
| V. FACILIT | | | | 1 | | fill-in area(s) below. If the label is need not complete Items I, III, V, | and VI | (ехсер | | | |
| ADDRES | | | : | | | | must be completed regardless). Co has been provided. Refer to the in | struction | ns for | | |
| VI. FACILIT | Y LOCATION | | | | | | descriptions and for the legal authorities data is collected. | orization | s und | | |
| II. POLLUTAN | T CHARACTERIS | TICS | | | | | | | | | |
| you answer "n | o" to each questic | | f these | form: bold- | s. You may faced terms | answer "no" if your activity is e | the third column if the suppleme excluded from permit requirement | ts; see | Secti Ma | | |
| | SPECIFIC QU | JESTIONS | YES | NO | FORM ATTACHED | SPECIFIC | QUESTIONS | YES | NO | | |
| | | ned treatment works which ers of the U.S.? (FORM 2A) | | × | | include a concentrated | y (either existing or proposed) animal feeding operation or tion facility which results in a | | × | | |
| | | | 16 | 17 | 18 | discharge to waters of th | | 19 | 20 | | |
| | | ntly results in discharges to an those described in A or B | \times | | | D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of | | | X | | |
| above? (FC | | in those described in A of B | 22 | 23 | 24 | the U.S.? (FORM 2D) | suit in a discharge to waters of | 25 | 26 | | |
| | will this facility t wastes? (FORM | treat, store, or dispose of 3) | | X | | F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, | | | × | | |
| | | | 28 | 29 | 30 | underground sources of d | | 31 | 32 | | |
| | | s facility any produced water brought to the surface in | | | hich are brought to the surface in processes such as mining of sulfur by the Frasch processes. | | | | of sulfur by the Frasch process, | | ĺ., |
| | | oil or natural gas production, ed recovery of oil or natural | 1 | X | | solution mining of minera fuel, or recovery of geothe | als, in situ combustion of fossil | ŀ | X | | |
| gas, or inje | | age of liquid hydrocarbons? | | | | ider, or recovery or geome | simal chergy: (1 Onto 4) | İ | | | |
| (FORM 4) | | | 34 | 35 | 36 | | | 37 | 38 | | |
| | | tionary source which is one listed in the instructions and | | | | | ed stationary source which is fustrial categories listed in the | | | | |
| which will j | potentially emit 10 | 00 tons per year of any air Clean Air Act and may affect | | ^ | | | rill potentially emit 250 tons per egulated under the Clean Air Act | | X | | |
| | | t area? (FORM 5) | 40 | 41 | 42 | and may affect or be lo | ocated in an attainment area? | 43 | 44 | | |
| | | <u> </u> | | <u></u> | | (FORM 5) | | | | | |
| III. NAME OF | FACILITY | | | | | | | | | | |
| 1 SKIP B | oston Wat | er and Sewer ST | • ' | | | | . , , , , , , , , , , , , , , , , , , , | · | . * * I | | |
| 15 18 - 29 30 | | | | | | | | 69 | _ | | |
| IV. FACILITY | CONTACT | | | | | | | T" | | | |
| | · | A. NAME & TITLE (last | first, e | & title) | <u>'</u> | | B. PHONE (area code & no.) | | | | |
| | en, Edward | l, 'President' ' | ' ' | ' ' | | | (202) 234-1567 ' | · | | | |
| 15 16 | | | | | | 45 | 46 48 49 51 52- | 55 | | | |
| V.FACILTY M | AILING ADDRESS | | 0.00 | Y | | | | | | | |
| | 1111 | A. STREET OR P. | .о. во | <u>^</u> | <u> </u> | | | | | | |
| ا الك | lyoming Av | | | | | | | | | | |

| 15 16 45 | 46 48 | 49 51 | 52- 55 | |
|--|-----------|-------------|------------|---------------------------------------|
| V. FACILTY MAILING ADDRESS | | | | |
| A. STREET OR P.O. BOX | | | | |
| 2301 Wyoming Ave., NW | | | | |
| 15 16 45 | 36 | 1 | 4 | |
| B. CITY OR TOWN C. STATE | D. ZIP CC | DE . | | |
| Washington DC | 20008 | 1 | | |
| 15 16 40 41 42 | 47 | 51 | | |
| VI. FACILITY LOCATION | | | | |
| A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER | | 1 4 1 | | * * * * * * * * * * * * * * * * * * * |
| 5 1 mile SSW from Intersection of Routes 707 & 522 | | | | |
| 15 16 45 | 5 | | | |
| B. COUNTY NAME | 1 | | | |
| Culpeper | | | | |
| 46 | 70 | | <u> </u> | |
| C. CITY OR TOWN D. STATE | E. ZIP CO | DE F. | COUNTY COD | E (if known) |
| 6 | 22713 | | { | |
| 15 16 40 41 42 | 47 | 51 | 52 -5 | 4 |
| EPA Form 3510-1 (8-90) | | | CONT | NUE ON REVERSE |

| CONTINUED FROM THE FROM | | | | | _ | | | | |
|--|---|--------------------------------|--|-----------------------|--------------|--|------------------|--|-------------|
| VII. SIC CODES (4-digit, in orde | A. FIRST | | | | - B | 3. SECON | ID. | | <u></u> |
| c (specify) Educati | ional Research, non-commercial | | <u>c </u> | (specify) Direct | | | | | |
| 7 8733 | | | 7 7331 | | | | | | |
| 15 16 19 | C. THIRD | | 15 16 - 19 | | | . FOURT | ſН | | |
| 7 2759 (specify) Printing | 3 | | 7 9999 | (specify) (res | identia | .1) non-c | lassifi | able community | у |
| 15 16 - 19 | | | 15 16 - 19 | | | | | | |
| VIII. OPERATOR INFORMATIO | N | | 10 10 | | | | | | |
| 8 Environmental S | Systems Service, LT | A. NAME TTTTT | | 1 1 1 | 7 7 7 | | | B. Is the name In VIII-A also the or YES IZINO | owner? |
| | IS OF OPERATOR (Enter the approp | priate letter into the a | inswer hor: if "C | Other " specify) | | | | PHONE (area co | vla & no) |
| F = FEDERAL S = STATE P = PRIVATE | M = PUBLIC (other than federal or O = OTHER (specify) | (spe | ecify) | oner, specify. | | | c | (540) 825 | 5-6660 |
| | E. STREET OR P.O. BOX | | | | | | 112 10 | - 16 19 - | 21 22 - 26 |
| 218 North Main St | | | | 55 | | er i de la companya d | | | |
| | F. CITY OR TOWN | | | G STATE | H, ZIP | CODE | IX. INDI/ | AN LAND | |
| B Culpeper | | | | VA VA | 2270 | 1 | | cility located on | |
| X. EXISTING ENVIRONMENTAL | L PERMITS | | | | | | | | |
| A. NPDES (Discharge. | | D. PSD (Air Emi: | ssions from Proj | posed Sources) | | | | - . | |
| 9 N VA0088749 | 9 P | 37 / 3 | | | 30 | | | | |
| B. UIC (Underground I | | 11/1/18 | | E. OTHE | | 5y) | | | |
| c T I N/A | С Т | $\frac{1}{N}$ | | 1 1 1-1 | 7 7 | specify) | | | |
| 9 U N/A 15 16 17 18 | 30 15 16 | 8 17 18 | | | | | | | |
| C. RCRA (Hazar | | 11/118 | | E. OTHE | .R (specif | (v) | | | |
| C T I NT / A | | | 1111 | | 1 6 | specify) | | | |
| 9 R N/A | 9 | N/A | | | | | | | |
| 15 16 17 18 XI. MAP | 30 15 16 | 17 18 | | | 30 | | | | |
| Attach to this application a topolocation of each of its existing a | ographic map of the area extendin and proposed intake and discharge de all springs, rivers, and other surf | structures, each of | its hazardous | waste treatmen | nt, storag | ge, or disp | posal fac | cilities, and each | |
| XII. NATURE OF BUSINESS (pr | ovide a brief description) | | | | | | | | |
| Planned unit developme center, office center 1000 units of mixed s | ent consisting of light, retail and service buingle family and multiment plant. The treatme | sinesses), re family units) | ecreationa). There | l componet will be no | s, and | d resid | dentia of ind | al (aaproxi | imately |
| | | | | | | | | | |
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| | | | | | | | | | |
| XIII. CERTIFICATION (see instru | uctions) | | | | | | | | |
| inquiry of those persons immedi | at I have personally examined and liately responsible for obtaining the ant penalties for submitting false info | information contain | ed in the appli | ication, I believe | that the | e informat | | | |
| A. NAME & OFFICIAL TITLE (197 | | B. SIGNATURE | | | | | | C. DATE SIGNE | ED |
| Edward O'Brien, P | resident | Edw | and J | 1 0.B1 | neu | | | 4-1- | -15 |
| COMMENTS FOR OFFICIAL US | E ONLY | | | | | | | | |
| C | | | | | 17 | | | | |

EPA ID Number (copy from Item 1 of Form 1)

Form Approved, OMB No. 2040-0086. Approval expires 5-31-92.

FORM

. خ که نافش ..

2E NPDES

SEPA Facilities Which Do Not Discharge Process Wastewater

| I, | REC | EIV | ING | WA | TERS | |
|----|-----|-----|-----|----|------|--|
| | | | | | | |

For this outfall, list the latitude and longitude, and name of the receiving water(s).

| Outfall Number (list) | | Latitude | | L | ongitude | • | Receiving Water (name) |
|--------------------------|-----|----------|-----|-----|----------|-----|------------------------|
| Number (list) | Deg | Min | Sec | Deg | Min | Sec | Hazel River |
| 001 | 38 | 31 | 30 | 78 | 8 | 16 | |

II. DISCHARGE DATE (If a new discharger, the date you expect to begin discharging)

| I | 1 | ΓY | PF | Ω | F١ | N. | Δ.9 | TE |
|---|---|----|----|---|----|----|-----|----|
| | | | | | | | | |

- A. Check the box(es) indicating the general type(s) of wastes discharged.
- ☐ Sanitary Wastes ☐ Restaurant or Cafeteria Wastes
- □ Noncontact Cooling Water □ Wastewate
- Other Nonprocess Wastewater (Identify)
- B. If any cooling water additives are used, list them here. Briefly describe their composition if this information is available. N/A

IV. EFFLUENT CHARACTERISTICS

- A. Existing Sources Provide measurements for the parameters listed in the left-hand column below, unless waived by the permitting authority (see instructions).
- B. New Dischargers Provide estimates for the parameters listed in the left-hand column below, unless waived by the permitting authority. Instead of the number of measurements taken, provide the source of estimated values (see instructions).

| | (Maxi | 1) mum | () Averag | (3) (0 | | (4) | | |
|---|--------------|-------------------|--------------|--------------------------------------|----------------------|-----|--|--|
| Pollutant or Parameter | Daily | Value e units) | Value (I | Value (last year) (include units) | | | Source of Estimate (if new discharger) | |
| | Mass | Concentration | Mass | Concentration | Taken (last year) | | ii new discharger) | |
| Biochemical Oxygen Demand (BOD) | 17.03 kg/day | 10 mg/L | 8.51 kg/day | 5 mg/L | | | Prof. Est. | |
| Total Suspended Solids (TSS) | 17.03 kg/day | 10 mg/L | 8.51 kg/day | 5 mg/L | | | II | |
| Fecal Coliform (if believed present or if sanitary waste is discharged) | | 200 mL/100ML | | 100 | | | II | |
| Total Residual Chlorine (if chlorine is used) | N/A | N/A | N/A | N/A | | | N/A | |
| Oil and Grease | 8.5 kg/day | <5 mg/L | 8.5 kg/day | <5 mg/L | | | Prof. Est. | |
| *Chemical oxygen demand (COD) | N/A | N/A | N/A | N/A | | | N/A | |
| *Total organic carbon (TOC) | N/A | N/A | N/A | N/A | | | N/A | |
| Ammonia (as N) | 3.4 kg/day | 2 mg/L | 3/4 Kg/day | 2 mg/L | | | Prof. Est. | |
| Discharge Flow | Value 0.450 |) MGD | 0.450 | | | n | | |
| pH (give range) | Value 6 - | 9 su | 6 - | 9 su | | | 11 | |
| Temperature (Winter) | | ¹⁰ °c | | ¹⁰ ℃ | | | u | |
| Temperature (Summer) | | ²⁸ ℃ | | 28 ℃ | , | | Iţ | |

*If noncontact cooling water is discharged

| V. Except for leaks or spills, will the discharge described in this form be intermittent or seasonal? | , |
|--|-------------------------|
| If yes, briefly describe the frequency of flow and duration. | ☑ No |
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| VI. TREATMENT SYSTEM (Describe briefly any treatment system(s) used or to be used) | |
| | |
| The system will be tertiary treatment using the activated sludge process for | |
| nitrification/denitrifiation followed by chemical addition, sand filtration and udisinfection, or equivalent. The treatment system will be designed in a modular | |
| each flow upgrade can be accomplished by adding new proces units to the prevvious | |
| system. | -7 |
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| | |
| VII. OTHER INFORMATION (Optional) | |
| Use the space below to expand upon any of the above questions or to bring to the attention of the reviewer any other info | rmation you feel |
| should be considered in establishing permit limitations. Attach additional sheets, if necessary. | |
| This discharge application is for a flow of 0.45 MGD. The treatment system will b | e installed in |
| phases as the development proceeds. The project phases are as follows: | |
| Dhago 1 0 075 MCD | |
| Phase 1 0.075 MGD Phase 2 0.150 MGD | |
| Phase 3 0.250 MGD | |
| Phase 4 0.450 MGD | |
| | |
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| | |
| VIII. CERTIFICATION | |
| I certify under penalty of law that this document and all attachments were prepared under my direction or supervision | |
| system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my | |
| persons who manage the system, or those persons directly responsible for gathering the information, the information sumy knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting fall | |
| the possibility of fine and imprisonment for knowing violations. | omaton, moraung |
| A. Name & Official Title | B. Phone No. (area code |
| n. Name a Omolar fille | & no.) |
| Edward O'Brien, President | (202) 234-1567 |
| i | |
| | (202) 234 1307 |
| C. Signature | D. Date Signed |
| C. Signature L. Disard D. O'Brian | |

EPA Form 3510-2E (8-90)

PUBLIC NOTICE BILLING INFORMATION

| I hereby authorize the Department of Env | ironmental Quality to have the cost of | publishing a public |
|---|--|---|
| notice billed to the Agent/Department sho | own below. The public notice will be | published once a week |
| for two consecutive weeks inStar | r Exponent | in accordance |
| with 9 VAC 25-31-290.C.2. | | |
| | | |
| | | |
| Agent/Department to be billed: | Boston Water & Sewer STP | |
| Owner: | Edward O'Brien | |
| Agent/Department Address: | 2301 Wyoming Ave., NW | |
| | Washington, DC 20008 | · |
| | | |
| Agent's Telephone No.: | (202) 234-1567 | |
| Printed Name: | EOWARD O'BRIEN | |
| Authorizing Agent – Signature: | Edward J. O. Bri | V v v v v v v v v v v v v v v v v v v v |
| Date | lh m l mt d | |

VPDES Permit No. VA0088749 Boston Water & Sewer STP

VPDES Permit Application Addendum

| 1. Entity to whom the permit is to be issued: Boston Water & Sewer STP | |
|--|----------|
| Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may on the facility or property owner. | * may |
| 2. Is this facility located within city or town boundaries? Yes \(\square\) No \(\square\) | |
| 3. Provide the tax map parcel number for the land where the discharge is located. 27 parcel 64 | |
| 4. For the facility to be covered by this permit, how many acres will be disturbed during the next | |
| five years due to new construction activities? < 5 acres | |
| 5. What is the design average effluent flow of this facility? 0.450 MGD | |
| For industrial facilities, provide the max. 30-day average production level, include units: | |
| In addition to the design flow or production level, should the permit be written with limits for an other discharge flow tiers or production levels? Yes No I If "Yes", please identify the other flow tiers (in MGD) or production levels: 0.075, 0.150, 0.250, 0.450 | y |
| Please consider the following questions for both the flow tiers and the production levels (if applicable): Do you plan expand operations during the next five years? Is your facility's design flow considerably greater than your current fl | |
| 6. Nature of operations generating wastewater: | |
| Residential Housing, Conference Center, Commercial Printing (sanitary only) | |
| 95 % of flow from domestic connections/sources | |
| Number of private residences to be served by the treatment works: | |
| 5 % of flow from non-domestic connections/sources | |
| 7. Mode of discharge: Continuous Intermittent Seasonal Describe frequency and duration of intermittent or seasonal discharges: | |
| 3. Identify the characteristics of the receiving stream at the point just above the facility's discharge point: | |
| X Permanent stream, never dry | |
| Intermittent stream, usually flowing, sometimes dry | |
| Ephemeral stream, wet-weather flow, often dry | |
| Effluent-dependent stream, usually or always dry without effluent flow | |
| Lake or pond at or below the discharge point | |
| Other: | |
| P. Approval Date(s): | _ |
| O & M Manual N/A Sludge/Solids Management Plan N/A | |
| | |

Boston Water & Sewer STP

VA0088749

Form Approved 1/14/99 OMB Number 2040-0086

FORM 2A

NPDES FORM 2A APPLICATION OVERVIEW

NPDES

APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - 1. All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

Boston Water & Sewer STP

VA0088749

Form Approved 1/14/99 OMB Number 2040-0086

| ВА | BASIC APPLICATION INFORMATION | | | | | | | | | |
|--------------|--|--|---|--|--|--|--|--|--|--|
| PAR | T A. BASIC APPL | LICATION INFORMATION FOR ALL | APPLICANTS: | | | | | | | |
| All tr | eatment works mus | t complete questions A.1 through A.8 of | this Basic Application Information pac | :ket. | | | | | | |
| A .1. | Facility Information | 1. | | | | | | | | |
| | Facility name | Boston Water & Sewer STP | | | | | | | | |
| | Mailing Address | 2301 Wyoming Ave NW, Washington | n. DC 20008 | | | | | | | |
| | Contact person | Edward O'Brien | | | | | | | | |
| | Title | President | | | | | | | | |
| | Telephone number | (202) 234-1567 | | | | | | | | |
| | Facility Address (not P.O. Box) | 1 mile SSW of Intersection of Routes | 522 and 707 | | | | | | | |
| A.2. | Applicant Informat | ion. If the applicant is different from the abo | ove, provide the following: | | | | | | | |
| | Applicant name | Environmental Systems Service, Ltd. | | | | | | | | |
| | Mailing Address | 218 N. Main Street, P.O. Box 520 Culpeper, VA 22701 | | | | | | | | |
| | Contact person | Donald Hearl | | | | | | | | |
| | Title | Vice President | | | | | | | | |
| | Telephone number | (540) 825-6660 | | | | | | | | |
| | Is the applicant the | owner or operator (or both) of the treatm | nent works? | | | | | | | |
| | Indicate whether cor | respondence regarding this permit should b | e directed to the facility or the applicant. | | | | | | | |
| A.3. | Existing Environme works (include state- | ental Permits. Provide the permit number of issued permits). | of any existing environmental permits that | t have been issued to the treatment | | | | | | |
| | NPDES <u>VA00887</u> | /49 | PSD <u>N/A</u> | | | | | | | |
| | UIC N/A | | Other N/A | | | | | | | |
| | RCRA <u>N/A</u> | | Other N/A | | | | | | | |
| A.4. | Collection System each entity and, if knetc.). | Information. Provide information on munic own, provide information on the type of collination of the type of type of the type of type of the type of the type of type | ipalities and areas served by the facility. ection system (combined vs. separate) an | Provide the name and population of nd its ownership (municipal, private, | | | | | | |
| | Name | Population Served | Type of Collection System | Ownership | | | | | | |
| | BWASC STP | < 150 | Sanitary | Private | | | | | | |
| | Total por | oulation served < 150 | | | | | | | | |

Form Approved 1/14/99 OMB Number 2040-0086

FACILITY NAME AND PERMIT NUMBER:

Boston Water & Sewer STP

VA0088749

| 5. | Inc | dian Country. | | | | | | _ | |
|----|-----|---|--|--|-----------------------|----------------|-------------|-------------------------------------|--------------------|
| | a. | Is the treatment works loc | ated in Indian Cour | ntry? | | | | | |
| | | Yes | No | | | | | | |
| | b. | Does the treatment works through) Indian Country? | discharge to a reco | eiving water that is either i | n Indian Country | or that is ups | tream fron | n (and eventually | y flows |
| | | Yes | _✓ No | | | | | | |
| 6. | ave | ow. Indicate the design flow erage daily flow rate and ma riod with the 12th month of | aximum daily flow r | ate for each of the last thr | ee years. Each ye | ear's data mi | ust be base | andle). Also pro ed on a 12-mont | vide the h time |
| | a. | Design flow rate | 0.450 mgd | | | | | | |
| | | |] | Two Years Ago | <u>Last Year</u> | | This Ye | <u>ar</u> | |
| | b. | Annual average daily flow | rate | STP | | Not | | Constructed | mgd |
| | C. | Maximum daily flow rate | _ | STP | | Not | | Constructed | mgd |
| 7. | Co | llection System. Indicate | the type(s) of collec | ction system(s) used by th | e treatment plant. | Check all th | nat apply. | Also estimate th | e perce |
| | cor | ntribution (by miles) of each | | | | | | | |
| | | Separate sanitary se | | | | | | 100 | % |
| | _ | Combined storm and | d sanitary sewer | | | | | 0 | % |
| 8. | Dis | scharges and Other Dispo | sal Methods. | | | | | | |
| | a. | Does the treatment works | discharge effluent | to waters of the U.S.? | | ✓ | Yes | | No |
| | | If yes, list how many of ea | ch of the following t | types of discharge points t | the treatment work | s uses: | _ | | |
| | | i. Discharges of treated | • | | | | | 1 | |
| | | ii. Discharges of untreate | ed or partially treate | ed effluent | | | | 0 | |
| | | iii. Combined sewer over | flow points | | | | | 0 | |
| | | iv. Constructed emergend | cy overflows (prior t | to the headworks) | | | | 0 | |
| | | v. Other | | • | | | | N/A | |
| | | | - | _ | | | | ,,,,, | |
| | b. | Does the treatment works impoundments that do not | discharge effluent thave outlets for dis | to basins, ponds, or other scharge to waters of the U | surface .S.? | | Yes | 1 | No |
| | | If yes, provide the following | | _ | | | | | |
| | | Location: | | | | | | | |
| | | Annual average daily volur | me discharged to s | urface impoundment(s) | • | | | mgd | |
| | | Is discharge | continuous or | intermittent? | | | | • | |
| | C. | Does the treatment works | land-apply treated | wastewater? | | | Yes | J | No |
| | | If yes, provide the following | • • | | | | _ 103 | | 110 |
| | | Location: | | | | | | | |
| | | Number of acres: | | | | " | | | - |
| | | Annual average daily volur | me applied to site: | | <u></u> М <u>с</u> | gd | | | |
| | | Is land application | continuous | or intermit | | - | | | |
| | d. | Does the treatment works of treatment works? | discharge or transp | oort treated or untreated w | astewater to anoth | ner | V | J | No |
| | | | | | | | Yes | | |

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| If transport is by a party | other than the applicant, provide: | | |
|---|---|-----|----|
| Transporter name: | | | , |
| Mailing Address: | | | |
| Contact person: | | | |
| Title: | | | |
| Telephone number: | | | |
| Mailing Address: | | | |
| Name: Mailing Address: | | | |
| Contact person: | | - | |
| Title: | | | |
| | | | |
| Telephone number: | | | |
| Telephone number: | DES permit number of the treatment works that receives this discharge. | | |
| Telephone number: If known, provide the NF | DES permit number of the treatment works that receives this discharge. y flow rate from the treatment works into the receiving facility. | | mg |
| Telephone number: If known, provide the NF Provide the average dail Does the treatment work | , | Yes | mg |
| Telephone number: If known, provide the NF Provide the average dail Does the treatment work A.8.a through A.8.d above | y flow rate from the treatment works into the receiving facility. s discharge or dispose of its wastewater in a manner not included in | Yes | |

|) | | |
|---|--|--|
| | | |

| | \sim 11 | ITV | ALA BAC | AND | PERMIT | A11 15 | MDED. |
|----|-----------|-----|---------|-----|--------|--------|--------|
| ГΑ | UIL | | NAME | ANU | PERMI | NUI | VIBER: |

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WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

| | Des | scription of Outfall. | | |
|------|------------|--|--|---|
| | a. | Outfall number | 001 | <u> </u> |
| 1 | b. | Location | Boston, VA | 22713 |
| | | | (City or town, if applicable) Culpeper | (Zip Code) |
| | | | (County) 38° 31' 30" | (State) 78° 8' 16" |
| | | | (Latitude) | (Longitude) |
| | C. | Distance from shore (| (if applicable) | N/A ft. |
| | | | | |
| , | ۵. | Depth below surface | (ii applicable) | N/A ft. |
| (| Э. | Average daily flow rat | te | 45 mgd |
| 1 | f. | Does this outfall have periodic discharge? | e either an intermittent or a | Yes No (go to A.9.g.) |
| | | If yes, provide the foll | lowing information: | |
| | | Number of times per | year discharge occurs: | |
| | | Average duration of e | each discharge: | |
| | | Average flow per disc | charge: | mgd |
| | | Months in which disch | harge occurs: | - |
| • | 3 . | ls outfall equipped wit | th a diffuser? | Yes No |
| D. I | Des | scription of Receiving | g Waters. | |
| 4 | a . | Name of receiving wa | ter <u>Hazel River, UT</u> | |
| Į |) . | Name of watershed (i | f known) | Rappahannock River |
| | | United States Soil Co | nservation Service 14-digit wat | ershed code (if known): Unknown |
| (| 3. | Name of State Manag | gement/River Basin (if known): | Rapidan - Upper Rappahannock Basin |
| | | United States Geolog | ical Survey 8-digit hydrologic ca | ataloging unit code (if known): Unknown |
| C | | Critical low flow of rec | ceiving stream (if applicable): | chronic cfs |
| | | | · - | (if applicable):N/A mg/l of CaCO ₃ |
| ٠ | | i otal lial allega di lega | civing sucam at chucal low llow | r (ii applicable)iv/A Ing/I of CaCO3 |

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 **Boston Water & Sewer STP** VA0088749 A.11. Description of Treatment. a. What levels of treatment are provided? Check all that apply. Primary Secondary Advanced Other. Describe: b. Indicate the following removal rates (as applicable): Design BOD, removal or Design CBOD, removal greater than 90 Design SS removal greater than 90 Design P removal not designed for Design N removal c. What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please describe. **UV Disinfection** If disinfection is by chlorination, is dechlorination used for this outfall? Νo Yes d. Does the treatment plant have post aeration? A.12. Effluent Testing Information. All Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three samples and must be no more than four and one-half years apart. Outfall number: 001 Plant Not Yet Constructed PARAMETER MAXIMUM DAILY VALUE AVERAGE DAILY VALUE Value Units Value Units Number of Samples pH (Minimum) s.u. pH (Maximum) s.u. MGD Flow Rate Temperature (Winter) Temperature (Summer) * For pH please report a minimum and a maximum daily value **MAXIMUM DAILY POLLUTANT** AVERAGE DAILY DISCHARGE **ANALYTICAL** ML / MDL DISCHARGE METHOD Conc. Units Conc. Units Number of Samples CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS. BIOCHEMICAL OXYGEN | BOD-5 DEMAND (Report one) CBOD-5 FECAL COLIFORM TOTAL SUSPENDED SOLIDS (TSS) END OF PART A.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

Boston Water & Sewer STP

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| ВА | S | IC A | APPLICATION INFORMATION |
|--------------------|-----------|-----------------|---|
| PAR | T | В. | ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day). |
| All a _l | pl | licants | with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification). |
| B.1. | li | nflow | and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration. |
| | B | Briefly | explain any steps underway or planned to minimize inflow and infiltration. |
| B.2. | Т | his m | raphic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. ap must show the outline of the facility and the following information. (You may submit more than one map if one map does not show ire area.) |
| | а | . Th | e area surrounding the treatment plant, including all unit processes. |
| | b | | e major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which ated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable. |
| | С | . Ea | ch well where wastewater from the treatment plant is injected underground. |
| | d | . We | ells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment rks, and 2) listed in public record or otherwise known to the applicant. |
| | е | . An | y areas where the sewage sludge produced by the treatment works is stored, treated, or disposed. |
| | f. | tru | ne treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by ck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or posed. |
| | ba ch | ickup Iorina | s Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., tion and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily as between treatment units. Include a brief narrative description of the diagram. |
| B.4. | Oı | perati | on/Maintenance Performed by Contractor(s). |
| | Ar co | e any | operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a or?YesNo |
| | | | st the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional necessary). |
| | Na | ame: | |
| | Ma | ailing | Address: |
| | Te | elepho | ne Number: |
| | Re | espon | sibilities of Contractor: |
| | un tre | comp atme | led Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or leted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the it works has several different implementation schedules or is planning several improvements, submit separate responses to question each. (If none, go to question B.6.) |
| | a. | Lis | the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule. |
| | b. | Ind | icate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies. _YesNo |

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 **Boston Water & Sewer STP** VA0088749 If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable). Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible. Actual Completion Implementation Stage MM / DD / YYYY MM / DD / YYYY - Begin construction __/ __/ ____ __/__/___ __/__/___ - End construction ___/ ___/ - Begin discharge __'___ __/__/___ - Attain operational level e. Have appropriate permits/clearances concerning other Federal/State requirements been obtained? ____Yes ___ _No Describe briefly: B.6. EFFLUENT TESTING DATA (GREATER THAN O.1 MGD ONLY). Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old. Outfall Number:_ POLLUTANT MAXIMUM DAILY AVERAGE DAILY DISCHARGE DISCHARGE Conc. Units Conc. Units Number of **ANALYTICAL** ML / MDL Samples **METHOD** CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS. AMMONIA (as N) CHLORINE (TOTAL RESIDUAL, TRC) DISSOLVED OXYGEN TOTAL KJELDAHL NITROGEN (TKN) NITRATE PLUS NITRITE NITROGEN OIL and GREASE PHOSPHORUS (Total) TOTAL DISSOLVED SOLIDS (TDS) OTHER END OF PART B.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

| FACILITY NAME AND P | 'ERMIT NUMBER: | | Form Approved 1/14/99 |
|---|---|--|---|
| Boston Water & Sewei | r STP VA008874 | 9 | OMB Number 2040-0086 |
| BASIC APPLICA | ATION INFORMAT | ION | |
| PART C. CERTIFICA | TION | | |
| | | Refer to instructions to dete | rmine who is an officer for the purposes of this certification. All |
| applicants must complete have completed and are | e all applicable sections of Fo | orm 2A, as explained in the Appertification statement, applica | oplication Overview. Indicate below which parts of Form 2A you nts confirm that they have reviewed Form 2A and have completed |
| Indicate which parts of | Form 2A you have comple | eted and are submitting: | • |
| Basic Applic | cation Information packet | Supplemental Application I | nformation packet: |
| | | Part D (Expanded | Effluent Testing Data) |
| | | Part E (Toxicity Te | esting: Biomonitoring Data) |
| | | Part F (Industrial L | Jser Discharges and RCRA/CERCLA Wastes) |
| | | Part G (Combined | Sewer Systems) |
| ALL APPLICANTS MUS | ST COMPLETE THE FOLLO | WING CERTIFICATION. | |
| designed to assure that of who manage the system | qualified personnel properly of or those persons directly res d complete. I am aware that | gather and evaluate the inform sponsible for gathering the info | under my direction or supervision in accordance with a system ation submitted. Based on my inquiry of the person or persons ormation, the information is, to the best of my knowledge and for submitting false information, including the possibility of fine |
| Name and official title | Edward O'Brien - Presid | ent | · |
| Signature | Edward & o' | Bons | |
| Telephone number | (202) 234-1567 | | |
| Date signed | 4-1-15 | | |
| | nitting authority, you must sui iate permitting requirements. | | essary to assess wastewater treatment practices at the treatment |

SEND COMPLETED FORMS TO:

Boston Water & Sewer STP

VA0088749

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SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

| Ē | | | |
|-----------------------|---|----------------------|---------|
| mber A of mples | | ANALYTICAL METHOD | ML/ MDL |
| | | | |
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Form Approved 1/14/99 OMB Number 2040-0086

FACILITY NAME AND PERMIT NUMBER:

Boston Water & Sewer STP

VA0088749

(Complete once for each outfall discharging effluent to waters of the United States.) Outfall number: POLLUTANT MAXIMUM DAILY AVERAGE DAILY DISCHARGE DISCHARGE Conc. Units Mass Units Conc. Units Mass Units Number ANALYTICAL ML/ MDL of **METHOD** Samples **VOLATILE ORGANIC COMPOUNDS. ACROLEIN** ACRYLONITRILE BENZENE **BROMOFORM CARBON TETRACHLORIDE** CLOROBENZENE CHLORODIBROMO-METHANE CHLOROETHANE 2-CHLORO-ETHYLVINYL ETHER CHLOROFORM DICHLOROBROMO-METHANE 1,1-DICHLOROETHANE 1,2-DICHLOROETHANE TRANS-1,2-DICHLORO-ETHYLENE 1,1-DICHLOROETHYLENE 1,2-DICHLOROPROPANE 1,3-DICHLORO-PROPYLENE **ETHYLBENZENE** METHYL BROMIDE METHYL CHLORIDE METHYLENE CHLORIDE 1,1,2,2-TETRACHLORO-ETHANE TETRACHLORO-ETHYLENE TOLUENE

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FACILITY NAME AND PERMIT NUMBER:

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(Complete once for each outfall discharging effluent to waters of the United States.) Outfall number: AVERAGE DAILY DISCHARGE POLLUTANT MAXIMUM DAILY DISCHARGE ANALYTICAL Conc. Units Mass Units Conc. Units Mass Units Number ML/ MDL METHOD of Samples 1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE TRICHLORETHYLENE VINYL CHLORIDE Use this space (or a separate sheet) to provide information on other volatile organic compounds requested by the permit writer. ACID-EXTRACTABLE COMPOUNDS P-CHLORO-M-CRESOL 2-CHLOROPHENOL 2,4-DICHLOROPHENOL 2.4-DIMETHYLPHENOL 4,6-DINITRO-O-CRESOL 2,4-DINITROPHENOL 2-NITROPHENOL 4-NITROPHENOL PENTACHLOROPHENOL PHENOL 2,4,6-TRICHLOROPHENOL Use this space (or a separate sheet) to provide information on other acid-extractable compounds requested by the permit writer. BASE-NEUTRAL COMPOUNDS. **ACENAPHTHENE ACENAPHTHYLENE** ANTHRACENE BENZIDINE BENZO(A)ANTHRACENE BENZO(A)PYRENE

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| Outfall number: | (Comp | lete ond | e for eac | ch outfall | discharg | ging efflu | ent to w | aters of | the United | States.) | |
|-----------------------------------|-------|----------|------------------|------------|----------|------------|----------|----------|-------------------------|----------------------|---------|
| POLLUTANT | | | JM DAIL IARGE | Y | A۱ | /ERAGE | DAILY | DISCH | | | |
| | Conc. | | Mass | Units | Conc. | Units | Mass | Units | Number of Samples | ANALYTICAL METHOD | ML/ MDL |
| 3,4 BENZO-FLUORANTHENE | | | | | | | | | | | |
| BENZO(GHI)PERYLENE | | | | | | | | | | | |
| BENZO(K)FLUORANTHENE | | | | _ | | | | | | | |
| BIS (2-CHLOROETHOXY) METHANE | | | | | | | | | | | |
| BIS (2-CHLOROETHYL)-ETHER | | | | | | | | | | | |
| BIS (2-CHLOROISO-PROPYL) ETHER | | | | | | | | | · | | |
| BIS (2-ETHYLHEXYL) PHTHALATE | t. | | _ | | - | | | | | | |
| 4-BROMOPHENYL PHENYL ETHER | | | | | | - | | | | | |
| BUTYL BENZYL PHTHALATE | | | | | | | | | · | | |
| 2-CHLORONAPHTHALENE | | | | | | | | | | | · |
| 4-CHLORPHENYL PHENYL ETHER | _ | | | | | | | | | | |
| CHRYSENE | | | | | | Ì | | | | | |
| DI-N-BUTYL PHTHALATE | | | | | | | 1 | | | | |
| DI-N-OCTYL PHTHALATE | | | | | | | | | | | |
| DIBENZO(A,H) ANTHRACENE | | | | | | | | | | | |
| 1,2-DICHLOROBENZENE | | | | | | | | | | | |
| 1,3-DICHLOROBENZENE | | | | | | | | | | | |
| 1,4-DICHLOROBENZENE | | | | | | | | | | | - |
| 3,3-DICHLOROBENZIDINE | | | | | | | | | | | |
| DIETHYL PHTHALATE | | | | | | | | | | | |
| DIMETHYL PHTHALATE | | | | | | | | | | | |
| 2,4-DINITROTOLUENE | | | | | | | | | | | - |
| 2,6-DINITROTOLUENE | | | | | | | | | | | |
| 1,2-DIPHENYLHYDRAZINE | | | | | | | | | | | |

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Form Approved 1/14/99 OMB Number 2040-0086

| Outfall number: (Complete once for each outfall discharging effluent to waters of the United States.) | | | | | | | | | | | |
|---|------------|-----------|------------------|------------|--------------|-------------------------|-----------|-----------|-------------------------|----------------------|---------|
| POLLUTANT | | | JM DAIL HARGE | Y | Α\ | AVERAGE DAILY DISCHARGE | | | ARGE | | |
| | Conc. | Units | | Units | Conc. | Units | Mass | Units | Number of Samples | ANALYTICAL METHOD | ML/ MDL |
| FLUORANTHÈNE | | | | | | | | | | | |
| FLUORENE | | | | | | | | | | | |
| HEXACHLOROBENZENE | | | | | | | | | | | |
| HEXACHLOROBUTADIENE | | | | | | | | | | | |
| HEXACHLOROCYCLO- PENTADIENE | | | | | | | | | | | |
| HEXACHLOROETHANE | | | | | | | | | | | |
| INDENO(1,2,3-CD)PYRENE | | | | | | | | | | | |
| ISOPHORONE | | | | | | | | | | | |
| NAPHTHALENE | | | | | | | | | | | |
| NITROBENZENE | | | | | | | | | | | |
| N-NITROSODI-N-PROPYLAMINE | | | | | | | | | | | |
| N-NITROSODI- METHYLAMINE | | | _ | | | | | | | | |
| N-NITROSODI-PHENYLAMINE | | | | | | | | | | | |
| PHENANTHRENE | | | | | | | | | | | |
| PYRENE | _ | | | | | | | | | | |
| 1,2,4-TRICHLOROBENZENE | | | | | | | | | | - | |
| Use this space (or a separate sheet) to | provide in | formatio | n on other | base-neu | itral comp | ounds re | quested b | y the per | mit writer. | | |
| | L., | | | | | | | | | | |
| Use this space (or a separate sheet) to | provide in | formation | on other | pollutants | s (e.g., pes | sticides) r | equested | by the p | ermit writer. | - | |
| | | | | | | | | | | | |

END OF PART D.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

Boston Water & Sewer STP

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SUPPLEMENTAL APPLICATION INFORMATION

PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity
 test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results
 of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E. his monitoring data is required do not semplete Part E. Parts to the Application Occasion for displacements.

methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E. If no biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to complete.

| complete. | | | |
|---|---|---|-----------------------------------|
| E.1. Required Tests. | | 1 | |
| Indicate the number of whole effluer | nt toxicity tests conducted in the past | four and one-half years. | |
| chronicacute | • | | |
| E.2. Individual Test Data. Complete the | e following chart <u>for each whole efflu</u> | ent toxicity test conducted in the last for if more than three tests are being rep | our and one-half years. Allow one |
| Column per test (where each specie | | - · | |
| | Test number: | Test Hamber | Test number |
| a. Test information. | | T | |
| Test species & test method number | | | |
| Age at initiation of test | | | |
| Outfall number | | | |
| Dates sample collected | | | |
| Date test started | | | |
| Duration | | | |
| b. Give toxicity test methods follows | ed. | _ | |
| Manual title | | | |
| Edition number and year of publication | | | |
| Page number(s) | | | |
| c. Give the sample collection metho | od(s) used. For multiple grab sample | es, indicate the number of grab sample | s used. |
| 24-Hour composite | | | |
| Grab | | | |
| d. Indicate where the sample was ta | aken in relation to disinfection. (Chec | k all that apply for each) | |
| Before disinfection | | | |
| After disinfection | | | |
| After dechlorination | | | |

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| Boston Water & Sewer STP | VA0088749 | | OMB Number 2040-0086 |
|---------------------------------------|--|------------------------------------|----------------------|
| | Test number: | Test number: | Test number: |
| e. Describe the point in the treatm | nent process at which the sample was | collected. | |
| Sample was collected: | | | |
| f. For each test, include whether t | he test was intended to assess chronic | toxicity, acute toxicity, or both. | |
| Chronic toxicity | | | |
| Acute toxicity | | | |
| g. Provide the type of test perform | ned. | | • |
| Static | | | |
| Static-renewal | | | |
| Flow-through | | | |
| h. Source of dilution water. If labo | pratory water, specify type; if receiving | water, specify source. | |
| Laboratory water | | | |
| Receiving water | | | |
| i. Type of dilution water. It salt wa | ter, specify "natural" or type of artificial | l sea salts or brine used. | |
| Fresh water | | | |
| Salt water | | | |
| | ed for all concentrations in the test serie | es. | |
| | (日本) (日本) (日本) (日本) (日本) (日本) (日本) (日本) | | |
| | 741 | | |
| | | | |
| | e test. (State whether parameter meet | s test method specifications) | |
| рН | | | |
| Salinity | | | |
| Temperature | | | |
| Ammonia | | | |
| Dissolved oxygen | | | |
| I. Test Results. | | | |
| Acute: | | | |
| Percent survival in 100% effluent | % | % | % |
| LC ₅₀ | | | |
| 95% C.I. | % | % | % |
| Control percent survival | % | % | % |
| Other (describe) | | | |

FACILITY NAME AND PERMIT NUMBER:

| FACILITY NAME AND PERMIT NUMBER: Boston Water & Sewer STP VA | .0088749 | | Form Approved 1/14/99 OMB Number 2040-0086 |
|---|---|---|--|
| Chronic: | | | · · · · · · · · · · · · · · · · · · · |
| NOEC | % | % | % |
| IC ₂₅ | % | % | % |
| Control percent survival | % | % | % |
| Other (describe) | | | |
| m. Quality Control/Quality Assurance | | | |
| Is reference toxicant data available? | | | |
| Was reference toxicant test within acceptable bounds? | | | |
| What date was reference toxicant test run (MM/DD/YYYY)? | | | |
| Other (describe) | | | |
| E.3. Toxicity Reduction Evaluation. Is the | | icity Reduction Evaluation? | |
| E.4. Summary of Submitted Biomonitorin cause of toxicity, within the past four ar summary of the results. | g Test Information. If you have s nd one-half years, provide the date | submitted biomonitoring test information was submitted to the | ion, or information regarding the e permitting authority and a |
| Date submitted: | _(MM/DD/YYYY) | | |
| Summary of results: (see instructions) | | | |
| | END OF PA | | |
| REFER TO THE APPLICATION | | | ER PARTS OF FORM |

2A YOU MUST COMPLETE.

EPA Form 3510-2A (Rev. 1-99). Replaces EPA forms 7550-6 & 7550-22.

Boston Water & Sewer STP

VA0088749

Form Approved 1/14/99 OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

| com | reatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must plete Part F. |
|-------------|---|
| GEI | NERAL INFORMATION: |
| F.1. | Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program? |
| | YesNo |
| F.2. | Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works. |
| | a. Number of non-categorical SIUs. |
| | b. Number of CIUs. |
| SIG | NIFICANT INDUSTRIAL USER INFORMATION: |
| Supp and | ply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 provide the information requested for each SIU. |
| | Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional |
| | pages as necessary. Name: |
| | Mailing Address: |
| | Mailing Address: |
| F.4. | Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge. |
| F.5. | Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge. |
| | Principal product(s): |
| | Raw material(s): |
| F.6. | Flow Rate. |
| | Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent. |
| | gpd (continuous orintermittent) |
| | b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent. |
| | gpd (continuous orintermittent) |
| F.7. | Pretreatment Standards. Indicate whether the SIU is subject to the following: |
| | a. Local limitsYesNo |
| | b. Categorical pretreatment standardsYesNo |
| | If subject to categorical pretreatment standards, which category and subcategory? |

| FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 | | | |
|--|---|--|--|
| oston Water & Sewer STP VA0088749 CMB Number 2040-0086 | | | |
| F.8. Problems at the Treatment Works Attributed to Waste Discharged by upsets, interference) at the treatment works in the past three years? | the SIU. Has the SIU caused or contributed to any problems (e.g., | | |
| YesNo If yes, describe each episode. | | | |
| | <u> </u> | | |
| | | | |
| RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEL | DICATED PIPELINE: | | |
| F.9. RCRA Waste. Does the treatment works receive or has it in the past three pipe?YesNo (go to F.12.) | e years received RCRA hazardous waste by truck, rail, or dedicated | | |
| F.10. Waste Transport. Method by which RCRA waste is received (check all t | hat apply): | | |
| TruckRailDedicated Pipe | | | |
| | | | |
| F.11. Waste Description. Give EPA hazardous waste number and amount (vo EPA Hazardous Waste Number Amount | olume or mass, specify units). Units | | |
| Zi // I decided Valle Hamber | <u>Onits</u> | | |
| | | | |
| | | | |
| | | | |
| CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CO ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WAST | | | |
| .12. Remediation Waste. Does the treatment works currently (or has it been | | | |
| Yes (complete F.13 through F.15.) No | Housed that it willy receive waste from remedial activities: | | |
| Provide a list of sites and the requested information (F.13 - F.15.) for each | h current and future site | | |
| Trovide a list of sites and the requested information (F. 15 - F. 15.) for each | Current and future site. | | |
| F.13. Waste Origin. Describe the site and type of facility at which the CERCLA | VRCRA/or other remedial waste originates (or is expected to origina | | |
| in the next five years). | | | |
| | | | |
| | | | |
| | · · · · · · · · · · · · · · · · · · · | | |
| F.14. Pollutants. List the hazardous constituents that are received (or are expe | ected to be received). Include data on volume and concentration, if | | |
| known. (Attach additional sheets if necessary). | ,, , | | |
| | | | |
| | | | |
| 15. Waste Treatment. | | | |
| a. Is this waste treated (or will it be treated) prior to entering the treatmer | nt works? | | |
| Yes No | . Works | | |
| If yes, describe the treatment (provide information about the removal e | efficiency). | | |
| | macroy). | | |
| | | | |
| h. Is the discharge (or will the discharge he) continuous or intermittent? | | | |
| b. Is the discharge (or will the discharge be) continuous or intermittent? | dooriho disabaras sabadata | | |
| ContinuousIntermittent If intermittent, | describe discharge schedule. | | |
| | | | |
| END OF PA | RT F. | | |

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

Form Approved 1/14/99 OMB Number 2040-0086

Boston Water & Sewer STP VA0088749 SUPPLEMENTAL APPLICATION INFORMATION PART G. COMBINED SEWER SYSTEMS If the treatment works has a combined sewer system, complete Part G. G.1. System Map. Provide a map indicating the following: (may be included with Basic Application Information) a. All CSO discharge points. b. Sensitive use areas potentially affected by CSOs (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems, and outstanding natural resource waters). c. Waters that support threatened and endangered species potentially affected by CSOs. G.2. System Diagram. Provide a diagram, either in the map provided in G.1. or on a separate drawing, of the combined sewer collection system that includes the following information: a. Locations of major sewer trunk lines, both combined and separate sanitary. b. Locations of points where separate sanitary sewers feed into the combined sewer system. c. Locations of in-line and off-line storage structures. d. Locations of flow-regulating devices. e. Locations of pump stations. **CSO OUTFALLS:** Complete questions G.3 through G.6 once for each CSO discharge point. G.3. Description of Outfall. a. Outfall number b. Location (City or town, if applicable) (Zip Code) (County) (State) (Latitude) (Longitude) c. Distance from shore (if applicable) d. Depth below surface (if applicable) e. Which of the following were monitored during the last year for this CSO? Rainfall CSO pollutant concentrations CSO frequency _CSO flow volume Receiving water quality f. How many storm events were monitored during the last year? G.4. CSO Events. a. Give the number of CSO events in the last year.

b. Give the average duration per CSO event. hours (

events (___ actual or ___ approx.)

actual or

approx.)

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 Boston Water & Sewer STP VA0088749 c. Give the average volume per CSO event. __ million gallons (____ actual or ____ approx.) d. Give the minimum rainfall that caused a CSO event in the last year. _ inches of rainfall G.5. Description of Receiving Waters. a. Name of receiving water: b. Name of watershed/river/stream system:_ United States Soil Conservation Service 14-digit watershed code (if known): ___ c. Name of State Management/River Basin: United States Geological Survey 8-digit hydrologic cataloging unit code (if known): G.6. CSO Operations. Describe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or intermittent shell fish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable State water quality standard). END OF PART G. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE.

VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

SCREENING INFORMATION

This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and D depend on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

| | C **111 | sections to All out. | |
|--|---|--|--|
| ١. | All applicants must complete Section A (General Information). | | |
| 2. | Will | this facility generate sewage sludge? X Yes No | |
| | Will t | his facility derive a material from sewage sludge?Yes _X_No | |
| | If you Deriv | answered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material ed From Sewage Sludge). | |
| | Will t | his facility apply sewage sludge to the land?Yes _X_No | |
| | Will s | newage sludge from this facility be applied to the land? _Yes _X_No | |
| | If you | answered No to both questions above, skip Section C. | |
| If you answered Yes to either, answer the following three questions: | | | |
| | a. | Will the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions? YesNo | |
| | b. | Will sewage sludge from this facility be placed in a bag or other container for sale or give-away for application to the land?YesNo | |
| | c. | Will sewage sludge from this facility be sent to another facility for treatment or blending?YesNo | |
| | If you | answered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge). | |
| | If you | answered Yes to a, b or c, skip Section C. | |
| | Do yo | u own or operate a surface disposal site?Yes _X_No | |
| | If Yes. | complete Section D (Surface Disposal). | |
| | | | |

VPDES PERMIT NUMBER: VA0088749

SECTION A. GENERAL INFORMATION

All applicants must complete this section.

| 1. | Facil | ity Information. |
|----|-------|--|
| | a. | Facility name: Boston Water & Sewer STP |
| | b. | Contact person: Mr. Edward O'Brien |
| | | Title: President |
| | | Phone: (202) 234-1567 |
| | c. | Mailing address: |
| | | Street or P.O. Box: 2301 Wyoming Ave., NW |
| | | City or Town: Washington State: DC Zip: 20008 |
| | d. | Facility location: |
| | | Street or Route #: 1 mile SSW of intersection of Routes 522 & 707 |
| | | County: Culpeper |
| | | City or Town: Boston State: VA Zip: 22713 |
| | e. | Is this facility a Class I sludge management facility?Yes _X No |
| | f. | Facility design flow rate: 0.450 mgd |
| | g. | Total population served: Variable |
| | h. | Indicate the type of facility: |
| | | Publicly owned treatment works (POTW) |
| | | X Privately owned treatment works |
| | | Federally owned treatment works |
| | | Blending or treatment operation |
| | | Surface disposal site |
| | | Other (describe): |
| | | • (46661166)) |
| 2. | Appl | icant Information. If the applicant is different from the above, provide the following: |
| | a. | Applicant name: _Environmental Systems Service, Ltd. |
| | b. | Mailing address: |
| | | Street or P.O. Box: P.O. Box 520 |
| | | City or Town: Culpeper State: VA Zip: 22701 |
| | C. | Contact person: Donald Hearl |
| | | Title: Vice President |
| | | Phone: (540) 825-6660 |
| | d. | Is the applicant the owner or operator (or both) of this facility? |
| | | owner Xoperator |
| | e. | Should correspondence regarding this permit be directed to the facility or the applicant? (Check one) |
| | | facility X applicant |
| | | —————————————————————————————————————— |
| 3. | Perm | it Information. |
| | a. | Facility's VPDES permit number (if applicable): <u>VA0088749</u> |
| | b. | List on this form or an attachment, all other federal, state or local permits or construction approvals received |
| | | or applied for that regulate this facility's sewage sludge management practices: |
| | | Permit Number: Type of Permit: |
| | | N/A |
| | | |
| | | |
| 4. | India | n Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this |
| | | y occur in Indian Country? Yes X No If yes, describe: |

VPDES PERMIT NUMBER: VA0088749

- 5. Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility: **SEE ATTACHMENT 1**
 - a. Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed.
 - b. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries.
- 6. Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction. SEE ATTACHMENT 2

| 7. | Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge generation, treatment, use or disposal the responsibility of a contractor?Yes _X_No If yes, provide the following for each contractor (attach additional pages if necessary). | | | | | |
|----|--|------------------------------|--------------------------------|--|--|--|
| | Name: | ` | , , | | | |
| | Mailing address: | | | | | |
| | Street or P.O. Box: | | | | | |
| | City or Town: | State: | Zip: | | | |
| | Phone: () | | | | | |
| | Contractor's Federal, State or Local Per | rmit Number(s) applicable to | this facility's sewage sludge: | | | |

If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s).

8. Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old. *N/A*

| POLLUTANT | CONCENTRATION (mg/kg dry weight) | SAMPLE DATE | ANALYTICAL METHOD | DETECTION LEVEL FOR ANALYSIS |
|------------|----------------------------------|----------------|----------------------|---------------------------------|
| Arsenic | | | | |
| Cadmium | | | | |
| Chromium | | | | |
| Copper | | | | |
| Lead | | | | |
| Mercury | | | | |
| Molybdenum | | | | |
| Nickel | | | | |
| Selenium | | | | |
| Zinc | | | | |

| | Zinc | | | | | | | | |
|----|------------------|--|--|---------------|--------------|------------------|--|--|--|
| 9. | determine who is | Certification. Read and submit the following certification statement with this application. Refer to the instructions determine who is an officer for purposes of this certification. Indicate which parts of the application you have completed and are submitting: | | | | | | | |
| | Section B (C | (General Information) Generation of Sewage Slud Land Application of Bulk S Surface Disposal) | | of a Material | Derived from | ı Sewage Sludge) | | | |

VPDES PERMIT NUMBER: VA0088749

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

| Name and o | official title Mr. Ed | ward O'Brien, Pro | <u>esident</u> | | |
|-------------|-------------------------|-------------------|----------------|--------|--|
| Signature | Elward | 20 Brie | Date Signed _ | 4-1-15 | |
| Telephone r | number <u>(202) 234</u> | - <u>1567</u> | | | |

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

VPDES PERMIT NUMBER: VA0088749

SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

| Comp | lete this se | ction if your facility generates sewage sludge or derives a material from sewage sludge NOT CONSTRUCTED |
|------|--------------|---|
| 1. | Amo | unt Generated On Site. N/A |
| | Total | dry metric tons per 365-day period generated at your facility: dry metric tons |
| 2. | dispo | unt Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or sal, provide the following information for each facility from which sewage sludge is received. If you receive ge sludge from more than one facility, attach additional pages as necessary. <i>N/A</i> Facility name: Contact Person: Title: Phone () |
| | c. | Mailing address: Street or P.O. Box: City or Town: State: Zip: |
| | d. | Facility Address: (not P.O. Box) |
| | e. f. | Total dry metric tons per 365-day period received from this facility: dry metric tons Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics: |
| 3. | Treat a. | ment Provided at Your Facility. Which class of pathogen reduction is achieved for the sewage sludge at your facility? |
| | b. | Class AX_Class BNeither or unknown Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge: |
| | c. | Which vector attraction reduction option is met for the sewage sludge at your facility? X Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids) None or unknown |
| | d. | Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction properties of sewage sludge: |
| | e. | Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including blending, not identified in a - d above: |
| 4. | of Ve | ration of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and One ctor Attraction Reduction Options 1-8 (EQ Sludge). <i>N/A</i> |
| | - | age sludge from your facility does not meet all of these criteria, skip Question 4.) |
| | a. | Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land: dry metric tons |
| | b. | Is sewage sludge subject to this section placed in bags or other containers for sale or give-away? YesNo |

| | | AME: Boston Water & Sewer STP VPDES PERMIT NUMBER: VA008874 |
|----|--------|--|
| 5. | | or Give-Away in a Bag or Other Container for Application to the Land. N/A |
| | | plete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land application. Skip this |
| | questi | on if sewage sludge is covered in Question 4.) |
| | a. | Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility |
| | | for sale or give-away for application to the land: dry metric tons |
| | b. | Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or |
| | | given away in a bag or other container for application to the land. |
| 6. | Shipr | nent Off Site for Treatment or Blending. |
| | (Com | plete this question if sewage sludge from your facility is sent to another facility that provides treatment or blending. This question |
| | | ot apply to sewage sludge sent directly to a land application or surface disposal site. Skip this question if the sewage sludge is |
| | covere | d in Questions 4 or 5. If you send sewage sludge to more than one facility, attach additional sheets as necessary.) |
| | a. | Receiving facility name: <u>Fauquier County Service Authority – Remington WWTP</u> |
| | b. | Facility contact: Raymond Searls |
| | | Title: <u>Director of Operations</u> |
| | | Phone: (540 <u>) 439-2225</u> |
| | c. | Mailing address: |
| | | Street or P.O. Box: P.O. Box 861646 |
| | | City or Town: Remington State: VA Zip: 22187 |
| | d. | Total dry metric tons per 365-day period of sewage sludge provided to receiving facility: dry |
| | | metric tons |
| | e. | List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of |
| | | all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal |
| | | practices: |
| | | Permit Number: Type of Permit: |
| | | VA0076805 VPDES |
| | | |
| | f. | Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your |
| | | facility? X Yes No |
| | | Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility? |
| | | Class AX_Class BNeither or unknown |
| | | Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to |
| | | reduce pathogens in sewage sludge: |
| | | |
| | g. | Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the |
| | | sewage sludge? X Yes No Which vector attraction reduction option is met for the sewage sludge at the receiving facility? |
| | | |
| | | X Option 1 (Minimum 38 percent reduction in volatile solids) |
| | | Option 2 (Anaerobic process, with bench-scale demonstration) |
| | | Option 3 (Aerobic process, with bench-scale demonstration) |
| | | Option 4 (Specific oxygen uptake rate for aerobically digested sludge) |
| | | Option 5 (Aerobic processes plus raised temperature) |
| | | Option 6 (Raise pH to 12 and retain at 11.5) |
| | | Option 7 (75 percent solids with no unstabilized solids) |
| | | Option 8 (90 percent solids with unstabilized solids) None unknown |
| | | Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to |
| | | |
| | | reduce vector attraction properties of sewage sludge: |
| | h. | Does the receiving facility provide any additional treatment or blending not identified in f or g above? |
| | | Yes X_No |
| | | If yes, describe, on this form or another sheet of paper, the treatment processes not identified in f or g above: |
| | | |
| | i. | If you answered yes to f., g or h above, attach a copy of any information you provide to the receiving facility |
| | == | to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G. |

SEE ATTACHMENT 3

| | J | away for application to the land?Yes X_No |
|----|--------|---|
| | | If yes, provide a copy of all labels or notices that accompany the product being sold or given away. |
| | k. | Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally |
| | | used for such purposes? X Yes No. If no, provide description and specification on the vehicle used |
| | | to transport the sewage sludge to the receiving facility. |
| | | Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the |
| | | week and the times of the day sewage sludge will be transported. SEE ATTACHMENT 4 |
| 7. | Land | Application of Bulk Sewage Sludge. N/A |
| | (Com | plete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or |
| | 6; con | nplete Question 7.b, c & d only if you are responsible for land application of sewage sludge.) |
| | a. | Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:dry metric tons |
| | b. | Do you identify all land application sites in Section C of this application?YesNo |
| | | If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in accordance with the instructions). |
| | c. | Are any land application sites located in States other than Virginia?YesNo |
| | | If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the |
| | | States where the land application sites are located. Provide a copy of the notification. |
| | | |
| | d. | Attach a copy of any information you provide to the owner or lease holder of the land application sites to |
| | | comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples |
| | | may be obtained in Appendix IV). |
| 8. | | ice Disposal. N/A |
| | | plete Question 8 if sewage sludge from your facility is placed on a surface disposal site.) |
| | a. | Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal |
| | L. | sites: dry metric tons |
| | b. | Do you own or operate all surface disposal sites to which you send sewage sludge for disposal? YesNo |
| | | If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage |
| | | sludge to more than one surface disposal site, attach additional pages as necessary. |
| | c. | Site name or number: |
| | d. | Contact person: |
| | | Title: |
| | | Phone: () |
| | | Contact is:Site OwnerSite operator |
| | e. | Mailing address. |
| | | Street or P.O. Box: |
| | c | City or Town: State: Zip: |
| | f. | Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal site: dry metric tons |
| | g. | List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of |
| | | all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface |
| | | disposal site: |
| | | Permit Number: Type of Permit: |
| | | |
| 9. | Incine | eration. <i>N/A</i> |
| | | olete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.) |
| | a. | Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge |
| | | incinerator: dry metric tons |
| | h | Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired? |

FACILITY NAME: Boston Water & Sewer STP VPDES PERMIT NUMBER: VA0088749 Yes No If no, answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary. Incinerator name or number: c. d. Contact person: Title: Phone: () Contact is: Incinerator Owner Incinerator Operator e. Mailing address. Street or P.O. Box: ___ State:__ City or Town: Zip: f. Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge incinerator: _____ dry metric tons List on this form or an attachment the numbers of all other federal, state or local permits that regulate the g. firing of sewage sludge at this incinerator: Permit Number: Type of Permit: 10. Disposal in a Municipal Solid Waste Landfill. N/A (Complete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following information for each municipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one municipal solid waste landfill, attach additional pages as necessary.) a. Landfill name: b. Contact person: Title: Phone: () Contact is: __Landfill Owner Landfill Operator c. Mailing address. Street or P.O. Box: City or Town: _____ State:_____ Zip: d. Landfill location. Street or Route #: County: City or Town: ____ State: ___ Zip: Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill: e. _____ dry metric tons f. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the operation of this municipal solid waste landfill: Permit Number: Type of Permit: Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9 g. VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill? _Yes __No Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid h. Waste Management Regulation, 9 VAC 20-80-10 et seq.? ___Yes ___No Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill i. be watertight and covered? Yes No Show the haul route(s) on a location map or briefly describe the route below and indicate the days of the week and time of the day sewage sludge will be transported.

SECTION C. LAND APPLICATION OF BULK SEWAGE SLUDGE

Complete this section for sewage sludge that is land applied unless any of the following conditions apply: N/A

The sewage sludge meets the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements and one of the vector attraction reduction options 1-8 (fill out B.4 instead) (EQ Sludge); or

The sewage sludge is sold or given away in a bag or other container for application to the land (fill out B.5 instead); or

You provide the sewage sludge to another facility for treatment or blending (fill out B.6 instead).

| Complete Section C for every site on which the sewage sludge that you reported in B.7 is land applied. | | | | | | |
|--|--|--|--|--|--|--|
| 1. | Identification of Land Application Site. | | | | | |
| •• | a. | Site name or number: | | | | |
| | b. | Site location (Complete i and ii) | | | | |
| | • | i. Street or Route#: | | | | |
| | | County: | | | | |
| | | City or Town: State: Zip: | | | | |
| | | City or Town: State: Zip: ii. Latitude: Longitude: | | | | |
| | | Method of latitude/longitude determination | | | | |
| | | USGS map Filed survey Other | | | | |
| | c. | Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) | | | | |
| | | that shows the site location. | | | | |
| 2. | Owne | er Information. | | | | |
| | a. | Are you the owner of this land application site?YesNo | | | | |
| | ь. b. | If no, provide the following information about the owner: | | | | |
| | 0. | Name: | | | | |
| | | Street or P.O. Box: | | | | |
| | | City or Town: State: Zip: | | | | |
| | | Phone: () | | | | |
| | | Though, () | | | | |
| 3. | Applier Information: | | | | | |
| | a. | Are you the person who applies, or who is responsible for application of, sewage sludge to this land | | | | |
| | | application site?YesNo | | | | |
| | b. If no, provide the following information for the person who applies the sewage sludge: | | | | | |
| | | Name: | | | | |
| | | Street or P.O. Box: | | | | |
| | | City or Town: State: Zip: | | | | |
| | | Phone: () | | | | |
| | C. | List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person | | | | |
| | | who applies sewage sludge to this land application site: | | | | |
| | | Permit Number: Type of Permit: | | | | |
| | | | | | | |
| | | | | | | |
| 4. | Site T | Type. Identify the type of land application site from among the following: | | | | |
| | | gricultural landReclamation siteForest | | | | |
| | | blic contact siteOther. Describe | | | | |
| | | | | | | |
| 5. | | or Attraction Reduction. | | | | |
| | Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site? | | | | | |
| | Y | esNo If yes, answer a and b. | | | | |
| | a. | Indicate which vector attraction reduction option is met: | | | | |
| | | Option 9 (Injection below land surface) | | | | |
| | | Option 10 (Incorporation into soil within 6 hours) | | | | |
| | b. | Describe, on this form or on another sheet of paper, any treatment processes used at the land application site | | | | |
| | | to reduce the vector attraction properties of sewage sludge: | | | | |

| LITY N | AME: Boston Water & Sewer STP VPDES PERMIT NUMBER: VA008874 |
|--------|--|
| Cumı | ulative Loadings and Remaining Allotments. |
| (Comp | plete Question 6 only if the sewage sludge applied to this site since July 20, 1993 is subject to the cumulative pollutant loading rates |
| (CPLF | Rs) - see instructions.) |
| a. | Have you contacted DEQ or the permitting authority in the state where the sewage sludge subject to the CPLRs will be applied to ascertain whether bulk sewage sludge subject to the CPLRs has been applied to this site since July 20, 1993?YesNo If no, sewage sludge subject to the CPLRs may not be applied to this site. |
| | If yes, provide the following information: |
| | Permitting authority: |
| | Contact person: |
| | Phone:() |
| b. | Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20 1993?YesNo If no, skip the rest of Question 6. If yes, answer questions c - e. |
| c. | Site size, in hectares: (one hectare = 2.471 acres) |
| d. | Provide the following information for every facility other than yours that is sending or has sent sewage sludg subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary. |
| | Facility name: |
| | Facility contact: |
| | Title: |
| | Phone: () |
| | Mailing address. |
| | Street or P.O. Box: |
| | City or Town: State: Zip: |
| e. | Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants: |

Cumulative loading Allotment remaining Arsenic

Cadmium Copper Lead Mercury Nickel Selenium Zinc

Complete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation.

7. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter.

> PCBs (mg/kg) pH (S. U.) Percent Solids (%) Ammonium Nitrogen (mg/kg) Nitrate Nitrogen (mg/kg) Total Kjeldahl Nitrogen (mg/kg) Total Phosphorus (mg/kg)

Total Potassium (mg/kg)

Alkalinity as CaCO₃* (mg/kg)

Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent CaCO₃.

Storage Requirements.

Existing and proposed sludge storage facilities must provide an estimated annual sludge balance on a monthly basis incorporating such factors as storage capacity, sludge production and land application schedule. Include pertinent calculations justifying storage requirements.

Proposed sludge storage facilities must also provide the following information:

- a. A sludge storage site layout on a 7.5 minute topographic quadrangle or other appropriate scaled map to show the following topographic features of the surrounding landscape to a distance of 0.25 mile. Clearly mark the property line.
 - 1) Water wells, abandoned or operating
 - 2) Surface waters
 - 3) Springs
 - 4) Public water supply(s)
 - 5) Sinkholes
 - 6) Underground and/or surface mines
 - 7) Mine pool (or other) surface water discharge points
 - 8) Mining spoil piles and mine dumps
 - 9) Quarry(s)
 - 10) Sand and gravel pits
 - 11) Gas and oil wells
 - 12) Diversion ditch(s)
 - 13) Agricultural drainage ditch(s)
 - 14) Occupied dwellings, including industrial and commercial establishments
 - 15) Landfills or dumps
 - 16) Other unlined impoundments
 - 17) Septic tanks and drainfields
 - 18) Injection wells
 - 19) Rock outcrops
- b. A topographic map of sufficient detail to clearly show the following information:
 - 1) Maximum and minimum percent slopes
 - 2) Depressions on the site that may collect water
 - 3) Drainageways that may attribute to rainfall run-on to or runoff from this site
 - 4) Portions of the site (if any) which are located with the 100-year floodplain and how the storage facility will be protected from flooding
- c. Data and specifications for the storage facility lining material.
- d. Plan and cross-sectional views of the storage facility.
- e. Depth from the bottom of the storage facility to the seasonal high water table and separation distance to the permanent water table.
- 9. Land Area Requirements. Provide calculations justifying the land area requirements for land application of sewage sludge taking into consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of the sewage sludge, specifically Plant Available Nitrogen (PAN), Calcium Carbonate Equivalence (CCE), and metal loadings (CPLR sewage sludge only), where applicable. Relate PAN, CCE, and metal loadings to demonstrate the most limiting factor for land application.
- 10. Landowner Agreement Forms. Provide a properly completed Land Application Agreement Biosolids Form and necessary attachments (attached at end of VPDES Sewage Sludge Permit Application Form) for each landowner if sewage sludge is to be applied onto land not owned by the applicant.

| 1 | 1. | Ground | Water | Moni | itarina |
|---|----|--------------------|-------|---------|---------|
| ı | | C 11 (11 (11 (1 | water | IVICITI | HARINY |

Are any ground water monitoring data available for this land application site? __Yes __No If yes, submit the ground water monitoring data with this permit application. Also submit a written description of the well locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.

12. Land Application Site Information.

(Complete Items a-d for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a 3 year period; complete Items a-h for sites receiving frequent application - land application of sewage sludge in excess of 70% the agronomic rate at a frequency greater than once in a 3 year period)

- a. Provide a general location map for each county which clearly indicates the location of all the land application sites.
- b. For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.
- In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or endangered species or federally designated critical habitat, the applicant must notify the field office of the U.
 Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application activities with the identification of the land application sites. The address and phone number of FWS are provided below.

U. S. Fish and Wildlife Service Virginia Field Office 6669 Short Lane Gloucester, VA 23061 TEL: (804)693-6694

Provide a copy of the notification letter with this application form.

- d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked. (A USDA-SCS soil survey map should be provided, if available.)
 Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of characteristics. Soil descriptions shall include as a minimum the following information.
 - 1) Soil symbol
 - 2) Soil series, textural phase and slope range
 - 3) Depth to seasonal high water table
 - 4) Depth to bedrock
 - 5) Estimated soil productivity group (for the proposed crop rotation)

Item e - h are required for sites receiving frequent application of sewage sludge

- e. In order to verify the information provided in item d, characterize the soil at each land application site.

 Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:
 - 1). Soil symbol
 - 2). Soil series, textural phase and slope range
 - 3). Depth to seasonal high water table
 - 4). Depth to bedrock
 - 5). Estimated soil productivity group (for the proposed crop rotation)

f. Collect and analyze soil samples from each field, weighted to best represent each of the soil borings performed for Item e. Using the table below or a separate attachment, provide at least one analysis per sample for each of the following parameters.

Soil Organic Matter (%)

Soil pH (std. units)

Cation Exchange Capacity (meq/100g)

Total Nitrogen (ppm)

Organic Nitrogen (ppm)

Ammonia Nitrogen (ppm)

Nitrate Nitrogen (ppm)

Available Phosphorus (ppm)

Exchangeable Potassium (mg/100g)

Exchangeable Sodium (mg/100g)

Exchangeable Calcium (mg/100g)

Exchangeable Magnesium (mg/100g)

Arsenic (ppm)

Cadmium (ppm)

Copper (ppm)

Lead (ppm)

Mercury (ppm)

Molybdenum (ppm)

Nickel (ppm)

Selenium (ppm)

Zinc (ppm)

Manganese (ppm)

Particle Size Analysis or

USDA Textural Estimate (%)

- g. Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.
- Using a narrative format and referencing any related charts, describe the proposed cropping system. Show
 how the crop rotation and management will be coordinated with the design of the land application system.
 Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting
 and harvesting schedules and timing of land application.

FACILITY NAME:



SECTION D. SURFACE DISPOSAL

| . Int | | Active Sewage Sludge Units. | | | |
|-------|----------------------|--|--|--|--|
| a. | Unit name or number: | | | | |
| b. | Unit l | ocation | | | |
| | i. | Street or Route#: | | | |
| | | County: | | | |
| | | City or Town: State: Zip: | | | |
| | ii. | Latitude: Longitude: | | | |
| | | Method of latitude/longitude determination | | | |
| | | USGS map Filed survey Other | | | |
| c. | Topog | graphic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable | | | |
| | | nows the site location. | | | |
| d. | Total | dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period: dry metric tons. | | | |
| e. | Total | dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit: | | | |
| c | | dry metric tons. | | | |
| f. | | the active sewage sludge unit have a liner with a minimum hydraulic conductivity of | | | |
| | 1 X 10 | Tom/sec?YesNo If yes, describe the liner or attach a description. | | | |
| g. | Does | the active sewage sludge unit have a leachate collection system?YesNo | | | |
| | If yes, | describe the leachate collection system or attach a description. Also, describe the method used for | | | |
| | leacha | ate disposal and provide the numbers of any federal, state or local permits for leachate disposal: | | | |
| h. | Is the | answered no to either f or g, answer the following: boundary of the active sewage sludge unit less than 150 meters from the property line of the surface sal site?YesNo If yes, provide the actual distance in meters: | | | |
| i. | | | | | |
| 1. | Antici | ining capacity of active sewage sludge unit, in dry metric tons: dry metric tons pated closure date for active sewage sludge unit, if known: (MM/DD/YYYY) | | | |
| | Provid | de with this application a copy of any closure plan developed for this active sewage sludge unit. | | | |
| Se | wage Sludge | from Other Facilities. | | | |
| Is: | sewage sludg | ge sent to this active sewage sludge unit from any facilities other than yours?YesNo | | | |
| | | the following information for each such facility, attach additional sheets as necessary. | | | |
| a. | Facilit | y name: | | | |
| b. | Facilit | y contact: | | | |
| | Title: | | | | |
| | Phone | | | | |
| c. | Mailir | ng address. | | | |
| | Street | or P.O. Box: | | | |
| | | r Town:State:Zip: | | | |
| d. | List, o | on this form or an attachment, the facility's VPDES permit number as well as the numbers of all other | | | |
| | federa | l, state or local permits that regulate the facility's sewage sludge management practices: | | | |
| | Permi | t Number: Type of Permit: | | | |
| | | | | | |
| e. | | class of pathogen reduction is achieved before sewage sludge leaves the other facility? | | | |
| _ | | ass AClass BNeither or unknown | | | |
| f. | | be, on this form or on another sheet of paper, any treatment processes used at the other facility to pathogens in sewage sludge: | | | |

| FACII | LITY N | AME:VPDES PERMIT NUMBER |
|-------|--------|--|
| | g. | Which vector attraction reduction option is achieved before sewage sludge leaves the other facility? Option 1 (Minimum 38 percent reduction in volatile solids) |
| | | Option 2 (Anaerobic process, with bench-scale demonstration) |
| | | Option 3 (Aerobic process, with bench-scale demonstration) |
| | | Option 4 (Specific oxygen uptake rate for aerobically digested sludge) |
| | | Option 5 (Aerobic processes plus raised temperature) |
| | | Option 6 (Raise pH to 12 and retain at 11.5) |
| | | Option 7 (75 percent solids with no unstabilized solids) |
| | | Option 8 (90 percent solids with unstabilized solids) None or unknown |
| | h. | Describe, on this form or another sheet of paper, any treatment processes used at the other facility to reduce |
| | | vector attraction properties of sewage sludge: |
| | i. | Describe, on this form or another sheet of paper, any other sewage sludge treatment activities performed by the other facility that are not identified in e - h above: |
| 3. | Vecto | or Attraction Reduction. |
| | a. | Which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage |
| | | sludge unit? |
| | | Option 9 (Injection below land surface) |
| | | Option 10 (Incorporation into soil within 6 hours) |
| | L | Option 11 (Covering active sewage sludge unit daily) |
| | b. | Describe, on this form or another sheet of paper, any treatment processes used at the active sewage sludge unit to reduce vector attraction properties of sewage sludge: |
| 4. | Gram | ad Water Manitoring |
| ł. | a. | nd Water Monitoring. Is ground water monitoring currently conducted at this active sewage sludge unit or are ground water |

- monitoring data otherwise available for this active sewage sludge unit? ___Yes ___No If yes, provide a copy of available ground water monitoring data. Also provide a written description of the well locations, the approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.
- Has a ground water monitoring program been prepared for this active sewage sludge unit? b. __Yes __No If yes, submit a copy of the ground water monitoring program with this application.
- Have you obtained a certification from a qualified ground water scientist that the aquifer below the active c. sewage sludge unit has not been contaminated? __Yes __No If yes, submit a copy of the certification with this application.

5. Site-Specific Limits.

Are you seeking site-specific pollutant limits for the sewage sludge placed on the active sewage sludge unit? __Yes __No If yes, submit information to support the request for site-specific pollutant limits with this application.

N/A

| the Landowner in the even individual parcels identified | erminated in writing by either t of a sale of one or more parc l in this agreement changes, th | betweenreferred to, referred to here as the "Permittee". This agreement by either party or, with respect to those parcels that are retained by more parcels, until ownership of all parcels changes. If ownership of hanges, those parcels for which ownership has changed will no ustrial residuals under this agreement. | | |
|--|--|--|---|--|
| Landowner: The Landowner is the own the agricultural, silvicultura as Exhibit A. | er of record of the real propert I or reclamation sites identified | y located in I below in Table 1 and identifie | _, Virginia, which includes d on the tax map(s) attached | |
| as Exhibit A. | Table 1.: Parcels autho | rized to receive biosolids | | |
| Tax Parcel ID | Tax Parcel ID | <u>Tax Parcel ID</u> | Tax Parcel ID | |
| | | | | |
| | i | | | |
| | | | | |
| | nd Application Sites are identified on | | | |
| | | er of the properties identified he e owners of the properties ider | | |
| within 38 months of the late 1. Notify the purchase later than the date | est date of biosolids application | ole public access and crop mar | | |
| notify the Permittee immed | iately if conditions change suc | ation on the fields identified he h that the fields are no longer a l or the information herein cont | available to the Permittee for | |
| above and in Exhibit A. Th identified above, before, du | e Landowner also grants perm | e to land apply biosolids on the nission for DEQ staff to conduc f biosolids for the purpose of d | ct inspections on the land | |
| Landowner – Printed Name, Titl | e Signature | Mailing | Address | |
| Permittee: | | | | |
| VPDES Permit Regulation and | d in amounts not to exceed the ra | olids on the Landowner's land in t tes identified in the nutrient mana 10.1-104.2 of the Code of Virginia | gement plan prepared for each | |
| | | er's designee of the proposed sch s land. Notice shall include the s | | |
| | | e person signing for landowner al eck this box if the landowner signs thi | | |
| Permittee – Authorized Represe | | Mailing | Address | |

| Permittee: | County or City: |
|------------|-----------------|
| Landowner: | |

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

2. Public Access

- a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols:
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

3. Crop Restrictions:

- a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
- e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- a. Meat producing livestock shall not be grazed for 30 days,
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- 5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

| Landowner's Signature | Date | |
|-----------------------|------|--|

Rev 9/14/2012 Page 2 of 2



Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and each of the legal landowners of those tax parcels. A *Land Application Agreement – Biosolids* form, pages 1 and 2 with original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

| Permittee: | |
|-------------------------|--|
| County or City: | |
| Please Print | (Signatures not required on this page) |
| <u>Tax Parcel ID(s)</u> | <u>Landowner(s)</u> |
| | |
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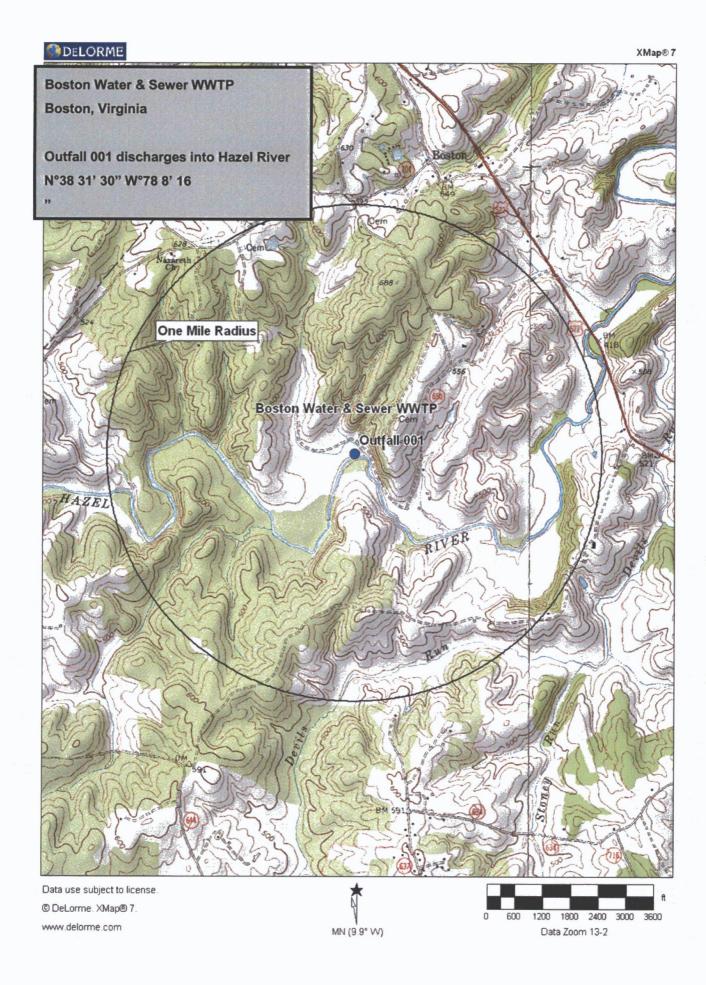
Page ___of___



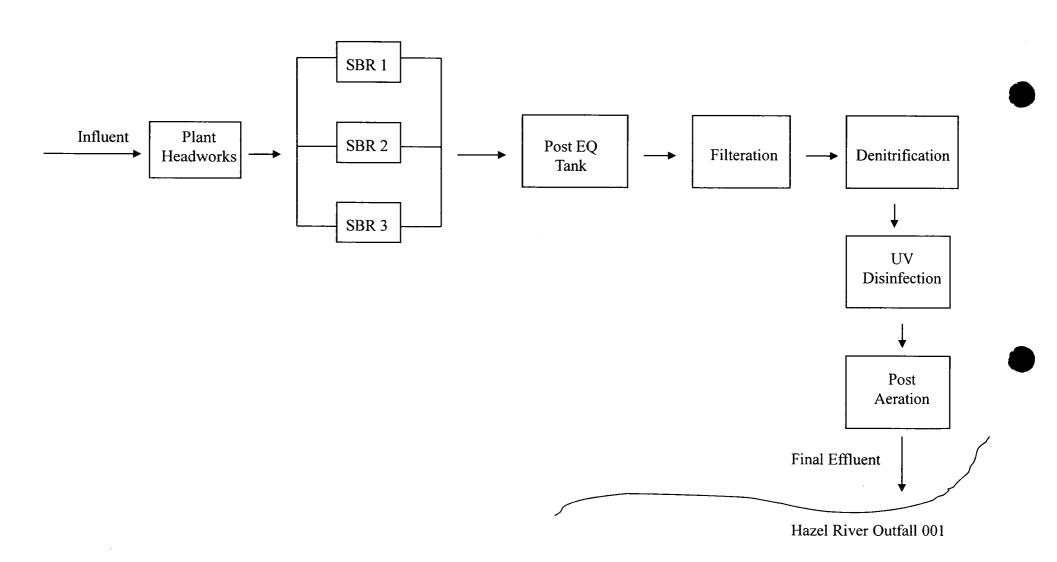
| Permittee: | | City/County: | | | |
|---|---------------------------|-----------------|---------------|--|--|
| Landowner: | | | | | |
| • | | | | | |
| Supplement A: Additio | nal Land Application Site | · 9 S | | | |
| Table 1 continued: Parcels authorized to receive biosolids. | | | | | |
| Tax Parcel ID | Tax Parcel ID | Tax Parcel ID | Tax Parcel ID | | |
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Mailing Address



.450 Advanced Activated Sludge Treatment with Total Nitrogen Removal Boston Water & Sewer STP VPDES VA0088749





March 27, 2015

Fauquier County Service Authority Remington WWTP Attn: Raymond Searls Director of Operations 12523 Lucky Hill Road Remington VA, 22734

RE: Boston Water and Sewer STP Sludge

VPDES Permit No. VA0088749

Dear Mr. Searls:

To be in compliance with the VPDES Permit Regulation (9VAC 25-31-530 G) I am required to notify you that in treating and disposing of our sewage sludge you must comply with the VPDES Permit Regulation Part VI, Subpart B – Land Application, if your facility disposes of sewage sludge by this method.

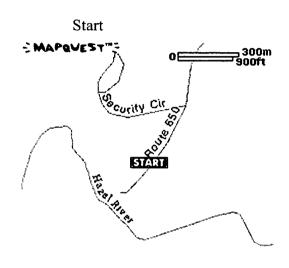
Should you have any questions on this matter, please contact the Northern Virginia Regional Office (NVRO) of the Department of Environmental Quality (DEQ) in Woodbridge, VA.

Best regards.

Cody Hoehna, Operations Manager Environmental Services Division

cc: DEQ, NVRO

Sludge Hauling Route From Boston Water and Sewer STP



©2003 MapQuest.com, Inc.; ©2003 GDT, Inc.

1 mile SSW of intersection of State Routes 522 & 707 Boston, VA 22713

Septage Hauler: Butler and Eicher

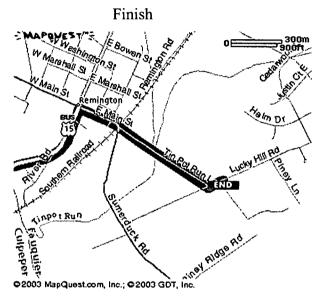
10607 James Madison Hwy

Bealton, VA 22712 Phone: 540-347-2274

Hauling Hours: Monday- Friday

8:00 am- 5:00 pm





12523 Lucky Hill Rd. Remington, VA 22734

Remington WWTP

Mr. Raymond Searls, Director of Operations

Phone: 540-439-2480

Receiving Facility VPDES #: VA0076805 Contact Hours: 8:00-5:00 Monday -Friday